

CLAIMS

1. A fastening between a fan shroud and a heat exchanger, said
fastening comprising a plurality of cooperating fastening devices about the outer
edge of said shroud and heat exchanger, at least one of said cooperating fastening
devices comprising:

a locking hook on one edge of said shroud;

a mount on an edge of said heat exchanger corresponding to said shroud
one edge, said mount defining a slot adapted to receive said locking
hook from a first direction;

a stop on said corresponding heat exchanger edge spaced from said mount
slot in a direction opposite said first direction; and

an elastically flexible extension on said locking hook including a locking tab,
said extension being

elastically biased toward an interfering position between said locking
tab and said stop when said locking hook is received in said
mount slot, and

manually engageable to flex the extension to a releasing position in
which said locking tab does not interfere with said stop.

2. The fastening of claim 1, further comprising a housing about
the edge of said heat exchanger, wherein said mount is on said housing.

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3. The fastening of claim 1, wherein

2 said fastening mounts said fan shroud to the front of said heat exchanger;
said first direction is generally up and said mount slot is upwardly open and
4 spaced forwardly of the front of said heat exchanger at said
corresponding heat exchanger edge; and
6 said locking hook extends laterally from said shroud one edge.

4. The fastening of claim 3, wherein

2 said mount includes a front leg spaced forwardly of a rear leg with said
mount slot defined between said legs;
4 said locking hook includes a lower portion having two arms spaced from
said lower portion on opposite sides thereof, said lower portion being
6 receivable between said front and rear legs with said front leg
captured between said lower portion and two arms.

5. The fastening of claim 4, wherein said mount front leg has a

2 tapered upper surface adapted to guide said locking hook toward said heat
exchanger when said locking hook is moved down into said mount slot.

6. The fastening of claim 4, further comprising a continuation on

2 the locking hook substantially vertically aligned with said locking tab on a side of
said locking hook opposite said locking tab, said continuation extending to said
4 mount front leg when said locking hook is received in said mount slot to secure the
locking hook against unintended loosening.

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2 7. The fastening of claim 1, wherein said first direction is generally up and said stop is spaced above said mount slot.

2 8. The fastening of claim 7, wherein said stop has a tapered upper surface adapted to flex said locking hook extension past said stop when said locking hook is moved into said mount slot.

2 9. The fastening of claim 1, wherein at least one other of said cooperating fastening devices comprise a pin and hook.

2 10. The fastening of claim 1, wherein said fan shroud is plastic and said locking hook is a protrusion molded on said one edge of said shroud.

2 11. The fastening of claim 1, wherein said heat exchanger comprises a heat exchanging device and a housing supporting said heat exchanging device in an installation.

2 12. The fastening of claim 1, wherein said first direction is generally up, and said stop secures said one cooperating fastening device against separation due to relative vertical movement.